2008 Annual Drinking Water Quality Report

(Consumer Confidence Report)
CITY OF MINERAL WELLS

Phone No. (940) 328-7777

Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems:

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromsied persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The EPA/Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800) 426-4791.

Public Participation Opportunities

Date: NONE SCHEDULED

Time: Location:

Phone No.: (940) 328-7777

To learn about future public meetings (concerning your drinking water), or to request to schedule one, please call us.

Our Drinking Water Meets or Exceeds All Federal (EPA) Drinking Water Requirements

This report is a summary of the quality of the water we provide our customers. The analysis was made by using the data from the most recent U.S. Environmental Protection Agency (EPA) required tests and is presented on the reverse side of this page. We hope this information helps you become more knowledgeable about what's in your drinking water.

WATER SOURCES: The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals, and in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (940) 328-7865 para hablar con una persona bilingüe en español.

Where do we get our drinking water?

Our drinking water is obtained from SURFACE water sources. It comes from the following Lake/River/Reservoir/Aquifer: Lake Palo Pinto, Palo Pinto Creek, and Hilltop Presedimentation Reservoir. A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality and will be provided to us this year. The report will describe the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment will allow us to focus our source water protection strategies. For more information on source water assessments and protection efforts at our system, please contact us.

ALL drinking water may contain contaminants.

When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800) 426-4791.

Secondary Constituents

Many constituents (such as calcium, sodium, or iron) which are often found in drinking water, can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly effect the appearance and taste of your water.

About the reverse side of this page

The reverse side of this page list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.

DEFINITIONS

Maximum Contaminant Level (MCL)

The highest permissible level of a contaminant in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

$Maximum\ Contaminant\ Level\ Goal\ (MCLG)$

The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL)

The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG)

The level of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectant to control microbial contamination.

Treatment Technique (TT)

A required process intended to reduce the level of a contaminant in drinking water.

Action Level (AL)

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

ABBREVIATIONS

NTU - Nephelometric Turbidity Units

MFL - million fibers per liter (a measure of asbestos)

pCi/L - picocuries per liter (a measure of radioactivity) ppm - parts per million, or milligrams per liter (mg/L)

ppb - parts per billion, or micrograms per liter (ug/L)

ppt - parts per trillion, or nanograms per liter

ppq - parts per quadrillion, or picograms per liter

INORGANIC CONTAMINANTS

	Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Contaminant
	2008	Fluoride	0.37	0.37	0.37	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
	2008	Nitrate	0.07	0.07	0.07	10	10	ppm	Runoff from fertilizer use: leaching from septic tanks, sewage,; erosion of natural deposits.
L	2005	Gross beta emitters	5.8	5.8	5.8	50	0	pCi/L	Decay of natural and man-made deposits.

ORGANIC CONTAMINANTS

TESTING WAIVED, NOT REQUIRED, OR NONE DETECTED

MAXIMUM RESIDUAL DISINFECTANT LEVEL

Systems must complete and submit disinfection data on the Surface Water Monthly Operations Report (SWMOR). On the CCR report, the system must provide disinfectant type,

minimum, maximum	rana average revers.							
Year	Disinfectant	Average	Minimum	Maximum	MRDL	MRDLG	Unit of	Source of Contaminant
rear	Dismicciant	Level	Level	Level	MINDL	MINDLO	Measure	Source of Contaminant
2008	Chloramine	2.91	1.2	3.7	4.0	<4.0	ppb	Disinfectant used to control microbes.

DISINFECTION BYPRODUCTS

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2008	Total Haloacetic Acids	22.3	13.9	31.7	60	ppb	Byproduct of drinking water disinfection.
2008	Total Trihalomethanes	43.5	24.9	75.2	80	ppb	Byproduct of drinking water disinfection.
2008	Total Trihalomethanes	45.0	24.9	75.2	80	ppb	Byproduct of drinking water disinfection.

UNREGULATED INITIAL DISTRIBUTION SYSTEM EVALUATION FOR DISINFECTION BYPRODUCTS

This evaluation is sampling required by EPA to determine the range of total trihalomethane and haloacetic acid in the system for future regulations. The samples are not used for compliance, and may have been collected under non-standard conditions. EPA also requires the data to be reported here.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2008	Total Haloacetic Acids	19.2	2.7	34.9	N/A	ppb	Byproduct of drinking water disinfection.
2008	Total Trihalomethanes	45.3	30.7	71.3	N/A	ppb	Byproduct of drinking water disinfection.

UNREGULATED CONTAMINANTS

Bromoform, chloroform, dichlorobromomethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution

distribution.						
Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2008	Chloroform	4.49	1.80	7.17	ppb	Byproduct of drinking water disinfection.
2008	Bromoform	7.60	5.20	10.00	ppb	Byproduct of drinking water disinfection.
2008	Bromodichloromethane	10.69	6.50	14.87	ppb	Byproduct of drinking water disinfection.
2008	Dibromochloromethane	15.11	14.00	16.21	ppb	Byproduct of drinking water disinfection.

LEAD AND COPPER

Year	Contaminant	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	Units of Measure	Source of Contaminant
2007	Lead	2.2	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2007	Copper	0.089	0	1.3		Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

All water systems are required by EPA to report the language below starting with the 2009 CCR to be delivered to you by July of 2010. We are providing this information now as courtesy. "If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water supply is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested,. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead."

TURBIDITY

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing

organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Highest Single
Year
Contaminant
Measurement
Neeting Limits

100.00
100.00
0.3
NTU
Soil runoff

TOTAL ORGANIC CARBON

Total Organic Carbon (TOC) no health effects. The disinfectant can combine with TOC to form disinfection byproducts. Disinfection is necessary to ensure that water does

not have unacceptable levels of pathogens. Byproducts of disinfection include trihalomethanes (THMs) and haloacetic acids (HAA) which are reported elsewhere in this report.						
Year	Contaminant	Average	Minimum	Maximum	Unit of	Source of Contaminant
rear	Contaminant	Level	Level	Level	Measure	
2008	Source Water	6.79	6.0	7.6	ppm	Naturally present in the environment
2008	Drinking Water	4.60	4.1	5.3	ppm	Naturally present in the environment
2008	Removal Ratio	1.28	1.03	1.59	% removal *	N/A
* Removal ration is	the percent of TOC removed	by the treatment	process divided	by the percent of	of TOC required by TCEQ to be removed.	

CRYPTOSPORIDIUM MONITORING INFORMATION

In 2008, the City of Mineral Wells began monthly testing of our raw water for Cryptosporidium, a microbial parasite that may be commonly found in surface water. Cryptosporidium may come from animal and human feces in the water shed. The result of our monitoring detected no cryptosporidium present.

REPORTED MONTHLY TESTS FOUND NO COLIFORM BACTERIA.

FECAL COLIFORM REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA. SECONDARY AND OTHER CONSTITUENTS NOT REGULATED

(No associated adverse health effects

TOTAL COLIFORM

Year or	G .:	Average	Minimum	Maximum	Secondary	Unit of	G 6G (*)
Range	Constituent	Level	Level	Level	Limit	Measure	Source of Constituent
2008	Bicarbonate	102	102	102	NA	ppm	Corrosion of carbonate rocks such as limestone.
2008	Chloride	51	51	51	300	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2008	Hardness as Ca/Mg	173	173	173	NA	ppm	Naturally occurring calcium and magnesium
2008	pH	7.3	7.3	7.3	>7.0	units	Measure of corrosivity of water.
2008	Sulfate	69	69	69	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2008	Total Alkalinity as as CaCO3	83	83	83	NA	ppm	Naturally occurring soluble mineral salts.
2008	Total Dissolved Solids	272	272	272	1000	ppm	Total dissolved mineral constituents in water.